

Wiring Devices and Supplies

1999

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(Formerly Series No. MA36K)

Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1997 Manufacturing Profiles, issued August 1999.

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These data are also available through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information. The Internet address is: www.stat-usa.gov/.

NOTE. Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see www.census.gov/epcd/www/naics.html.

SUMMARY OF FINDINGS

During 1999, manufacturers' shipments of wiring devices and supplies totaled \$10.1 billion, an increase of 0.2 percent from \$9.9 billion in 1998. Current-carrying wiring devices accounted for \$5.5 billion, an increase of 3.7 percent from \$5.4 billion in 1998, while the noncurrent-carrying wiring devices accounted for \$4.6 billion, an increase of 2.9 percent over 1998. The 1999 shipments included lamp-holders, valued at \$171 million, down 0.13 percent from \$193.9 million in 1998; convenience and power outlets, valued at \$415.6 million, down 0.11 percent from \$462.1 million in 1998; switches, valued at \$1.7 billion, down 3.8 percent from \$1.8 billion in 1998; metal contacts valued at \$243 million, an increase of 7.7 percent from \$226 million in 1998; wire connectors, valued at \$1.71 billion, increased 0.18 percent from \$1.45 billion in 1998; other current-carrying wiring devices valued at \$1.1 billion, down 0.10 percent from 1998's \$1.3 billion; pole line and transmission hardware, valued at \$963.5 million, up from \$852.4 million in 1998; electrical conduit and conduit fittings, valued at \$2.1 billion, unchanged from 1998; and other noncurrent-carrying devices, valued at \$1.6 billion, up 5.4 percent from \$1.5 billion in 1998.

Current
Industrial
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Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Vance Davis, 301-457-4790.

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Table 1. Value of Shipments of Wiring Devices and Supplies by Class of Product: 1990 to 1999
[Millions of current dollars]

Product code	Product description	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
335931	Current-carrying wiring devices.....	5,468	5,448	5,300	4,836	4,772	4,422	4,087	4,154	3,939	3,858
3359311	Lampholders.....	171	194	194	193	201	211	210	197	215	230
3359313	Convenience and power outlets, both general- and special-purpose, excluding pin and sleeve type.....	416	461	436	375	364	341	314	332	309	287
3359315	Switches for electrical circuitry.....	1,779	1,840	1,775	1,612	1,623	1,526	1,474	1,424	1,310	1,349
3359317	Metal contacts precious and other.....	243	226	214	239	259	245	208	240	332	317
3359319	Wire connectors for electrical circuitry.....	1,714	1,450	1,462	1,235	1,194	1,082	976	1,007	916	844
335931A	Other current-carrying wiring devices, including attachment plug caps, connector bodies, lightning arrestors, and pin and sleeve convenience power outlets.....	1,145	1,277	1,219	1,182	1,130	1,018	904	953	858	830
335932	Noncurrent-carrying wiring devices.....	4,595	4,464	4,424	3,938	3,915	3,622	3,251	3,140	2,930	3,096
3359321	Pole line and transmission hardware...	964	852	856	704	673	641	618	542	494	517
3359323	Electrical conduit and conduit fittings.....	2,066	2,126	2,184	1,960	2,050	1,866	1,634	1,601	1,497	1,658
335932	Other noncurrent-carrying wiring devices and supplies.....	1,565	1,485	1,384	1,274	1,192	1,116	999	998	940	922

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 1999 and 1998
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999			1998	
			Quantity	Value		Quantity	Value
	Wiring devices and supplies.....	(X)	(X)	10,173,531		(X)	10,328,748
335931	Current-carrying wiring devices.....	(X)	(X)	5,468,641		(X)	5,801,392
3359311	Lampholders.....	27	426,240	171,010	r/	519,136	193,961
	Incandescent:						
3359311002	Push through and pull types, all materials, threaded, medium base only, excluding outlet box type and socket interiors 1/.....	5	(D)	(D)		(D)	(D)
3359311004	Outlet box, threaded, medium base only, pull and keyless types.....	4	16,051	17,227		17,496	19,278
3359311006	Weatherproof, threaded, medium base only.....	6	2,818	3,242		3,655	3,929
3359311008	Candelabra base, all types.....	10	10,088	4,372	a/	17,615	6,426
3359311011	Sign and fixture, medium base only....	6	22,607	22,005		19,844	19,647
3359311012	All other incandescent, medium, admedium, intermediate, lumiline, miniature, including but not limited to pin-type, cleat, hasp, and socket interiors sold seperately, all bases 1/.....	14	81,686	54,030	r/	87,465	56,100
	Fluorescent:						
3359311014	Bi-pin.....	8	220,384	29,772	a/	273,501	36,180
3359311016	Slimline 2/.....	4	(D)	(D)		(D)	(D)
3359311018	Recessed double contact 2/.....	4	(D)	(D)		(D)	(D)
3359311021	All other fluoresent, including but not limited to circlene, panelescent and starter holders 2/.....	5	13,867	7,070	r/	16,921	6,713
3359311022	All other lampholders, including cold cathode neon and bases for quartz lamps.....	6 c/	4,118 b/	5,829 b/ r/		6,997 a/	6,997
3359313	Convenience and power outlets, both general- and special-purpose, excluding pin and sleeve type.....	13	243,024	415,567	r/	290,120	462,168
3359313002	Receptacles with GFIC (all types, all amperages).....	5 a/	24,993	158,535	a/ r/	23,861	168,713
	Receptacles without GFIC:						
3359313004	2-pole, 2-wire (flush, all types) 3/.....	5	(D)	(D)		(D)	(D)
	2-pole, 3-wire and up (flush):						
3359313006	Locking, 15 amperes and under 4/.....	4	(D)	(D)		(D)	(D)
3359313008	Locking, 20 amperes and over 4/.....	6	5,085	27,713		4,551	27,424
3359313011	Nonlocking, 15 amperes and under.....	5	67,546	59,784		95,781	71,922
3359313012	Nonlocking, 20 amperes and over.....	7	33,559	60,012	r/	35,548	62,674
3359313014	Appliance and special applications all amperages, all types.....	5	15,725 b/	6,895 c/		27,736 b/ r/	11,948
3359313016	All other types, including dust and explosion proof, surface and 2-pole/2-wire 3/.....	8	6,853	66,268	b/ r/	14,195 a/ r/	67,386
3359315	Switches for electrical circuitry.....	78 a/	968,383 a/	1,778,659		984,539	1,846,866
	General use flush-mounted switches, designed for mounting in switch or outlet boxes (except dimmers):						
	Ac (except mercury):						
3359315102	Single pole, 15 amperes and under.....	9	83,216	66,268		86,097	67,386
3359315104	Single pole, over 15 amperes.....	6	66,268	27,245	r/	67,386	27,337
3359315106	Other than single pole, including but not limited to double pole 3-way, 4-way.....	7 b/	43,286 b/	81,407 a/		51,537	87,120
3359315108	Ac-dc (except mercury) 5/.....	3	(D)	(D)		(D)	(D)
3359315111	All other general-use switches, including surface-mounted, mercury, etc. 5/.....	8 b/	10,489 b/	14,880 b/ r/		13,336 b/ r/	18,539
	Special-purpose switches:						
3359315312	Appliance and fixture, including pendant and canopy types and variable speed controls.....	18 b/	97,972 b/	134,433 b/		102,118 a/	155,892

Continued

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 1999 and 1998
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
3359315314	Precision (1/8-inch gap or less) snap-acting switches, excluding limit switches.....	8	78,357 a/	48,880 a/	89,655 b/	62,127
3359315616	Aircraft types 6/.....	9	(D)	(D)	(D)	(D)
3359315218	Automotive types.....	34 a/	375,389 a/	881,916	381,549	877,629
3359315321	All other special-purpose switches, including foot actuated, light sensing, and signal actuated 6/.....	29 a/	250,894 a/	315,189 b/ r/	230,415 a/ r/	329,273
	Dimmers:					
	Incandescent:					
3359315422	Infinitely variable, 600 watts or less.....	9	6,568 a/	51,862 b/	7,934 a/	50,590
3359315424	Infinitely variable, over 600 watts.....	8 a/	294	15,364 a/	278	14,687
3359315426	All other types, including but not limited to portable lamps and high-low switches.....	8 a/	2,091 b/	56,973 a/ r/	2,051 b/	51,172
3359317	Metal contacts, precious and other.....	14 a/	(S) b/	243,433	959,923 a/ r/	240,363
3359319	Wire connectors, including connectors used under national electrical application.....	64 b/	42,141,261 a/	1,714,703	45,458,052 r/	1,661,432
3359319002	Pressure connectors, where pressure is applied by screw, cone, or mechanical device.....	26 b/	1,798,521 a/	230,161	1,469,535 a/	193,079
3359319004	Compression connectors, uninsulated terminals and splicers, tool installed.....	26	2,199,727	213,707 b/ r/	2,197,223 b/ r/	209,461
3359319006	Preinsulated terminals and splicers, tool installed.....	18	3,939,965	99,436 r/	5,065,513 r/	107,718
3359319008	Banded or strip terminals and splicers, machine installed.....	12	3,880,102	103,486 r/	3,608,096 a/ r/	97,427
3359319011	Pigtail connectors, including wire nuts 7/.....	13	(D)	(D)	(D)	(D)
3359319012	Blade or pin type, separable terminations and splicers 7/.....	11	(D)	(D)	(D)	(D)
3359319014	Other wire connectors, n.e.c., including solder type 7/.....	31 a/	18,991,912 a/	506,190 r/	21,844,240 r/	490,833
335931A	Other current-carrying wiring devices, including attachment plug caps, connector bodies, lightening arrestors, pin and sleeve convenience power outlets, etc.....	120	(X) b/	1,145,269	(X) r/	1,396,602
	Attachment plug caps and flanged outlets, including motor bases, all types; including fused, fuseless, switch, and switchless:					
335931A002	2-pole, 2-wire, all types, general use locking and nonlocking, all amperages.....	13 a/	18,391 a/	10,923 a/	25,255	23,629
	2-pole, 3-wire and up:					
335931A004	Locking, all amperes.....	8	1,256	4,002	1,859	6,238
335931A006	Locking, 20 amperes and over.....	7	2,301	25,263	2,325	21,274
335931A007	Nonlocking, all amperes 8/.....	(NA)	(D)	(D)	52,875	76,444
335931A012	All other types (except pin and sleeve), including dust and explosion-proof, appliance and other special application 8/.....	8	16,455	56,121	1,456 r/	27,760
	Connector bodies and flanged outlets, all types:					
335931A014	2-pole, 2-wire, all types, all amperages.....	6 b/	1,324 a/	1,434 b/	1,487 a/	1,439
	2-pole, 3-wire and up:					
335931A016	Locking, 15 amperes and under.....	9	2,668	21,310	2,499	20,528
335931A018	Locking, 20 amperes and over.....	9	1,402	19,986	1,213	17,492
335931A019	Nonlocking, all amperes.....	10	6,239	25,328	6,252	25,667

Continued

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 1999 and 1998
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
335931A024	All other types (except pin and sleeve), including dust and explosion-proof, appliance, and other special application.....	7	38,400	38,197	35,256 r/	36,213
	Pin and sleeve convenience and power outlets, attachment plug caps and and connector bodies:					
	Pin and sleeve, general-purpose (120 volts and over, 20 amperes and over):					
335931A026	Convenience and power outlets 9/.....	9	(D)	(D)	(D)	(D)
335931A028	Attachment plug caps.....	8	107	12,648	227	19,763
335931A031	Connector bodies.....	7	499	26,586	497	26,352
335931A032	All other pin and sleeve, including dust and explosion-proof 20 amperes types, etc. 9/.....	6 b/	313	10,699 b/ r/	352 r/	12,508
335931A034	Fluorescent starters.....	7 c/	3,760 c/	900 c/ r/	7,925 c/ r/	2,436
335931A036	Terminal blocks.....	21 a/	112,307 b/	129,598 a/	116,412 a/	137,212
335931A038	Lightning arrestors for alternating current power transmission systems and substations; U.S. designation, station and intermediate, I.E.C. designation 10 kA and 5 kA Series A.....	6	(X) a/	45,030	(X)	31,050
335931A041	Lightning arrestors for alternating current power distribution systems and substations; U.S. designation distribution and secondary I.E.C. designation 5 kA Series B, 2.5 kA and 1.5 kA.....	4	(X)	105,763	(X) r/	119,399
335931A042	Surge suppressors, designed for equipment operating on 110/120 volt circuits....	13	(X) c/	130,903	(X) c/ r/	141,462
335931A044	Lightning rods.....	13	(X) a/	54,121	(X) a/	50,744
335931A046	Electric harnesses and assemblies, excluding engine harnesses (from purchased wire).....	20	(X) b/	168,934	(X)	174,255
335931A048	All other wiring devices with integral ground fault circuit interrupting capabilities, excluding circuit breakers 10/.....	5	(D)	(D)	(D)	(D)
335931A051	Miscellaneous, including combination devices, adapters, current taps, surface extensions, rosettes, choke coils, rail bonds, and overhead trolley line materials 10/.....	37	(X) a/	237,928	(X) a/	293,305
335932	Noncurrent-carrying wiring devices.....	(X)	(X)	4,704,890	(X)	4,527,356
3359321	Pole and transmission line hardware.....	35	(X) a/	963,589	(X)	842,278
3359321002	Pole and transmission line construction materials, also known as overhead and underground line hardware for electric transmission, distribution, and and communication lines.....	27	(X) a/	787,847	(X)	704,172
3359321004	Pole and transmission line anchors.....	5	(X)	19,889	(X)	17,097
3359321006	All other pole and transmission line hardware.....	12	(X) b/	155,853	(X)	121,009
3359323	Electrical conduit and conduit fittings.....	66	(X) b/	2,176,533	(X)	2,143,079
3359323101	Rigid metal conduit, excluding couplings, nipples, bends, and elbows.....	(NA)	260,279	255,658	281,102	270,767
3359323106	Nonmetallic conduit (1,000 pounds).....	5	802,817	330,698	755,764	263,729
3359323108	Electrical metallic (short tons).....	5	486,506	399,229	458,529	386,389
3359323111	Flexible steel and aluminum conduit (1,000 feet).....	10 b/	262,990 b/	77,931 b/	262,885 b/	77,066
3359323112	Flexible nonmetallic conduit (1,000 pounds).....	10 a/	129,821	49,272 b/ r/	139,872	48,594

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[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
3359323114	Raceways and wire ways, including fittings, metal.....	10	(X)	203,985	(X)	199,755
3359323116	Ventilated cable tray and accessories.....	6	(X) b/	60,070	(X)	61,301
3359323118	Cast conduit bodies, covers, and gaskets....	8	(X) a/	83,712	(X)	133,193
	Rigid conduit fittings, including couplings, nipples, bends, and elbows:					
3359323221	Couplings, connectors, and unions.....	16	(X) b/	130,027	(X) b/	158,234
3359323222	Locknuts and bushings.....	9	(X) a/	33,717	(X) b/ r/	30,883
3359323224	All other rigid conduit fittings.....	7	(X) b/	55,905	(X) b/	48,466
3359323226	Nonmetallic conduit fittings.....	11	(X)	74,879	(X)	72,838
	EMT fittings (couplings and connectors):					
3359323228	Gland type.....	10	(X) a/	39,797	(X) b/	33,004
3359323231	Set-screw type.....	8	(X) a/	35,403	(X) b/	30,637
3359323232	All others.....	8	(X) a/	16,483	(X) b/	12,032
3359323234	Service entrance caps, ells, and connectors.....	10	(X)	10,724	(X) a/	9,158
	Cable, cord, and flexible conduit fittings:					
3359323236	Armored cable, metallic sheathed cable, and flexible conduit fittings.....	14	(X) a/	172,303	(X) a/	186,118
3359323238	Liquid-tight flexible conduit fittings.....	10	(X)	79,840	(X) c/	58,234
3359323241	Nonmetallic sheathed cable and cord fittings.....	12	(X) b/	24,592	(X) b/	29,432
3359323242	Other electric conduit fittings.....	14	(X) a/	42,308	(X) a/ r/	44,705
3359325	Other noncurrent-carrying wiring devices and supplies.....	72	(X)	1,564,768	(X)	1,541,999
	Stamped metal boxes, covers, and accessories, including stamped conduit boxes:					
3359325102	Switch and receptacle boxes.....	12	(X)	427,257	(X)	415,136
3359325204	Outlet boxes.....	7	(X)	142,996	(X) b/	117,700
3359325206	Covers.....	9	(X)	45,724	(X) b/	57,096
3359325208	Supports, bar hangers, and other accessories.....	12	(X)	66,253	(X) b/	66,420
	Cast metal boxes, covers, gaskets, and accessories:					
3359325311	FS and FD switch and receptacle type.....	9	(X)	19,479	(X)	27,056
3359325312	Outlet type.....	6	(X)	41,887	(X)	50,742
3359325314	Junction type.....	17	(X) a/	84,805	(X)	87,379
	Switch, outlet, FM/TV, and telephone wall plates:					
3359325316	Metallic.....	8	48,455	25,226	56,094 r/	56,094
3359325318	Nonmetallic.....	9	301,879	73,434	295,688 r/	28,658
3359325321	Plastic boxes and covers.....	15	(X)	167,881	(X) a/ r/	295,688
3359325322	Floor boxes and covers.....	7	(X)	43,429	(X) b/ r/	46,075
3359325324	Other noncurrent-carrying wiring devices and supplies.....	32	(X) a/	426,397	(X)	378,558

D Data withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data. S Does not meet publication standards. X Not applicable.

1/Product code 3359311002 is combined with product code 3359311012 to avoid disclosing data for individual companies.

2/Product code 3359311016 is combined with product codes 3359311018 and 3359311021 to avoid disclosing data for individual companies.

3/Product code 3359313004 is combined with product code 3359313016 to avoid disclosing data for individual companies.

4/Product code 3359313006 is combined with product code 3359313008 to avoid disclosing data for individual companies.

5/Product code 3359315108 is combined with product code 3359315111 to avoid disclosing data for individual companies.

6/Product code 3359315616 is combined with product code 3359315321 to avoid disclosing data for individual companies.

7/Product code 3359319011 is combined with product codes 3359319012 and 3359319014 to avoid disclosing data for individual companies.

8/Product code 335931A007 is combined with product code 335931A012 to avoid disclosing data for individual companies.

9/Product code 335931A026 is combined with product code 335931A032 to avoid disclosing data for individual companies.

10/Product code 335931A048 is combined with product code 335931A051 to avoid disclosing data for individual companies.

Note: The percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

**Table 3. Value of Shipments, Exports, and Imports of Selected
Wiring Devices: 1999 and 1998**
[Millions of dollars]

Product description	Manufacturers' shipments f.o.b. plant 1/	Exports of domestic merchandise at port 1/2/	Imports for consumption 1/3/
1999			
Lampholders.....	171.0	32.2	70.4
Metal contacts.....	243.0	141.9	73.0
1998			
Lampholders.....	194.0	29.8	65.7
Metal contacts.....	226.0	132.4	65.8

1/For comparison of the North American Industry Classification System codes with Schedule B export numbers and HTSUSA import numbers, see Table 4.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Production description	Export number 1/	Import number 2/
3359311	Lampholders.....	8536.61.0000	8536.61.0000
3359317	Metal contacts.....	8538.90.7040	8538.90.8040
3359315102,	Switches, other than dimmers.....	8535.30.0040	8535.30.0040
104, 106,		8536.50.9065	8536.50.9025
108, 111,			8536.50.9035
218, 314,			8536.50.9050
321, 616,			8536.50.9055
			*8536.50.9065
3359315422,	Dimmer switches.....	*8533.39.0040	*8533.39.0040
424, 426		8536.50.9040	
3359319	Wire connectors.....	8536.69.5050	*8536.69.8000
3359323	Conduit fittings.....	*8547.20.0000	8547.20.0000
		8547.90.0010	8547.90.0010
		*8547.90.0020	*8547.90.0020
		*8547.90.0030	*8547.90.0030
		*8547.90.0040	*8547.90.0040

*This code is partially correlated with the products described.

1/Source: Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported for the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated.